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PTO/SB/21 (09-04)

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### TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

14

Application Number

10/649,335

Filing Date

August 28, 2003

First Named Inventor

Michiel Lotter

Art Unit

2837

Examiner Name

Y. T. Tse

Attorney Docket Number

18133U502

### ENCLOSURES (check all that apply)

☒ Fee Transmittal Form

☐ Fee Attached

☐ Amendment/Reply

☐ After Final

☐ Affidavits/declaration(s)

☐ Extension of Time Request

☐ Express Abandonment Request

☐ Information Disclosure  
Statement

☐ Certified Copy of Priority  
Document(s)

☐ Reply to Missing Parts/  
Incomplete Application

☐ Reply to Missing Parts under  
37 CFR 1.52 or 1.53

☐ Drawing(s)

☐ Licensing-related Papers

☐ Petition

☐ Petition to Convert to a  
Provisional Application

☐ Power of Attorney, Revocation  
Change of Correspondence  
Address

☐ Terminal Disclaimer

☐ Request for Refund

☐ CD Number of CD(s) \_\_\_\_\_

☐ Landscape Table on CD

☐ After Allowance Communication  
to TC

☐ Appeal Communication to Board  
of Appeals and Interferences

☐ Appeal Communication to TC  
(Appeal Notice, Brief, Reply Brief)

☐ Proprietary Information

☐ Status Letter

☐ Return-Receipt Postcard

☒ Other Enclosure(s) (please  
identify below):

- Amendment Under 37 C.F.R. §  
1.312

- Comments on Statement of  
Reasons for Allowance

Remarks

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm \_\_\_\_\_  
McAndrews Held & Malloy, Ltd.

Signature \_\_\_\_\_  
*Michael T. Cruz*

Printed Name \_\_\_\_\_  
Michael T. Cruz

Date \_\_\_\_\_  
May 24, 2006

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Michael T. Cruz

Registration No. (Attorney/Agent) \_\_\_\_\_

44,636

Signature \_\_\_\_\_  
*Michael T. Cruz*

Date

May 24, 2006

Attorney Docket No.: 16133US02



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

M. Lotter et al.

Serial No.: 10/649,335

Filed: August 26, 2003

For: ADAPTIVE PILOT  
INTERFERENCE CANCELLATION  
IN CDMA SYSTEMS

Examiner: Y.T. Tse

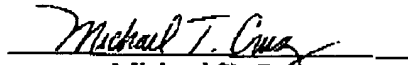
Group Art Unit: 2637

Conf. No.: 4554

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**COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE**

Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This paper responds to the reasons for allowance or allowability stated by the Examiner ("the Examiner's Statement") as set forth in the record of above-identified application and accompanies the issue/publication fee transmittal (part B).

## REMARKS

Applicants respectfully submit that the documents made of record, taken alone or in combination, fail to fairly describe, teach or suggest "generating a plurality of intra-finger interference cancellation signals using said plurality of pilot signals, each of said plurality of intra-finger interference cancellation signals being associated with one of said plurality of fingers; weighting ones of said plurality of intra-finger interference cancellation signals so as to generate a set of weighted intra-finger interference cancellation signals; synthesizing at least one inter-finger interference cancellation signal in accordance with said set of weighted intra-finger interference cancellation signals; receiving, by said plurality of fingers, said at least one inter-finger interference cancellation signal, wherein different ones of the plurality of fingers can receive different ones of said at least one inter-finger interference cancellation signal; and subtracting said at least one inter-finger cancellation signal from one of said plurality of data signals" as set forth in claim 1.

Applicants respectfully submit that the documents made of record, taken alone or in combination, fail to fairly describe, teach or suggest "generating N intra-finger interference cancellation signals using said N associated pilot signals, each of said N intra-finger interference cancellation signals being associated with one of said N fingers; weighting ones of said N intra-finger interference cancellation signals so as to generate N weighted intra-finger interference cancellation signals; synthesizing N inter-finger interference cancellation signals, each of said N inter-finger interference cancellation signals being synthesized on the basis of one or more of said N weighted intra-finger interference cancellation signals; and subtracting each of said N inter-finger interference cancellation signals from a corresponding one of said N data signals, thereby generating N interference-reduced data signals" as set forth in claim 9.

Applicants respectfully submit that the documents made of record, taken alone or in combination, fail to fairly describe, teach or suggest "a rake receiver having N fingers for processing N data signals and N associated pilot signals, wherein N is an integer, each of said N fingers including an intra-finger interference cancellation module configured to generate an intra-finger interference cancellation signal using at least one of said N associated pilot signals; and an inter-finger interference cancellation module for synthesizing N inter-finger interference cancellation signals, each of said N inter-finger interference cancellation signals being synthesized on the basis of a set of said intra-finger interference cancellation signals, said inter-

Comments on Statement of Reasons for Allowance dated May 24, 2006  
In Reply to Examiner's Reasons for Allowance or Allowability

finger interference cancellation module including: a gain adjustment unit for weighting said intra-finger interference cancellation signals so as to generate a plurality of weighted intra-finger interference cancellation signals, and a summation unit adapted to combine ones of said plurality of weighted intra-finger interference cancellation signals" as set forth in claim 14.

Applicants respectfully submit that any Examiner's Statement might imply that the dependent claims are only allowable because they depend from allowed independent claims. However, the Examiner's Statement does not discuss any of the other elements of the claimed subject matter, in particular, those additional elements recited in the dependent claims which may render the dependent claims independently allowable in view of the specification, prosecution file history and/or the documents made of record, either alone or in combination.

Applicants respectfully submit that the Examiner's Statement presents only some of the reasons for allowance of the claims, and that other reasons also exist for allowing the claims such as, for example, those set forth more completely in the record as a whole. This interpretation is consistent with M.P.E.P. § 1302.14, which states that any statement of reasons for allowance "[i]s not intended to necessarily state all the reasons for allowance or all the details why claims are allowed and should not be written to specifically or impliedly state all the reasons for allowance are set forth." M.P.E.P. § 1302.14.

Finally, Applicants agree with the Examiner that claims 1-20 are allowable in view of all of the documents made of record, either alone or in combination. However, Applicants do not necessarily agree or disagree with the Examiner's characterization of the documents made of record, either alone or in combination, or the Examiner's characterization of recited claim elements. In closing, Applicants respectfully reserve the right to argue the characterization of the documents of record, either alone or in combination, or the characterization of the recited claim elements should that need arise in the future.

If the Examiner has questions, or if Applicants can be of assistance, the Examiner is invited and encouraged to contact Applicants' representative at the below-listed telephone number.

FROM McANDREWS, HELD, & MALLOY

(WED) 5. 24' 06 14:56/ST. 14:54/NO. 4861050115 P 7

Appln. No. 10/649,335


Comments on Statement of Reasons for Allowance dated May 24, 2006

In Reply to Examiner's Reasons for Allowance or Allowability

The Commissioner is hereby authorized to charge additional fees or credit overpayments to the deposit account of McAndrews, Held & Malloy, Account No. 13-0017.

Dated: May 24, 2006

Respectfully submitted,

  
Michael T. Cruz  
Reg. No. 44,636

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